CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS) STAFF PROFILE

PERSONAL INFORMATION

1. Name : R. SOUNDARIA

2. Date of Birth : 05.02.1987

3. Address :

Residential	Office
NO 651, 6 th CROSS,	CAUVERY COLLEGE FOR WOMEN
SHANMUGA NAGAR,	(AUTONOMOUS),
U.K.T. MALAI,	ANNAMALAI NAGAR,
VAYALOOR ROAD,	TRICHY-620018
TRICHY-620102	

ACADEMIC INFORMATION

4. Designation & Department: Assistant professor,

PG and Research Department of Mathematics

5. Educational Qualification:

Degree	Year	College/University
Ph.D	2020	Pursuing, Bharathidasan
		University,
SET	2017	Mother Teresa Women's
SEI	2017	University
M.Phil	2017	Bishop Heber College, Trichy
M.Sc.,	2009	PSG College of Technology,
		Coimbatore
B.Sc.,	2007	Pioneer College of Arts and
		Science , Coimbatore

6. Researcher ID

GOOGLE SCHOLAR: 3SxIBOUAAAAJ

ORCID: https://orcid.org/0000-0001-9654-7729

WEB OF SCIENCE: https://publons.com/researcher/ABX-6247-2022/

PUBLONS: https://publons.com/researcher/3706605/soundaria-r/

SCOPUS: https://id.elsevier.com/settings/redirect?code=I4amNgH4ATWAdAQXnni9hT6-

alDyzznCcdIo2IXk

VIDWAN: https://vidwan.inflibnet.ac.in/profile/205834

7. Experience

Date of Joining	Institution	Year of Experience
18.06.2018 to till date	Cauvery college for Women,	6 year 9 months
	Trichy	
27.06.2011 to 08.04.2014	Trichy Engineering College,	2 years 9 months
	Trichy	
18.06.2009 to 30.10.2010	PSG College of Arts and	1 year 4 months
	Science, Coimbatore	

8. Areas of Specialization: Fuzzy Inventory Models with Machine Learning

9. Languages known: English, Tamil.

10. Subjects Taught

UG	Numerical Methods with MATLAB Programming, Analytical Geometry 3D, Graph
	Theory, Algebra and Calculus, Biostatistics, Operations Research, Fuzzy Sets and
	Systems, Mathematics – III, R Language, Numerical Analysis and Statistics
PG	Advanced Numerical analysis, Ordinary Differential Equations, Mathematical
	Foundation For computer Science

11. Details of Publications:

Journal Name & Volume	Year of Publication	ISSN Number	Name of the Paper	Impact Factor
Thermal Science,	December	2334 – 7163	Optimization of the	1.655
Volume 25,	2021		Average Monthly	
Special Issue			Cost of an EOQ	
(Scopus)			Inventory Model	
			for Deteriorating	
			Items in Machine	
			Learning Using	
			Python	
Sigma	March	2227 - 7390	Optimizing The	2.3
Mathematics	2024		Economic Order	
(Scopus) & 12			Quantity Model	
			Using Fuzzy Set	
			Theory and	
			Machine Learning	
			Applied to a	
			Pharmaceutical	
			Framework	
Fuzzy Systems	July –	1819 - 4362	Enhancing Fuzzy	1.3
and Soft	December		EOQ Judicial	
Computing & 19	2024		Framework using	
(UGC Care List –			Machine Learning	
I)			with Weka	

Communications on Applied Nonlinear Analysis (Scopus) & 32	October 2024	1074 – 133X	Optimization of Fuzzy Economic Order Quantity using Machine Learning and Weka	0.18
Axioms (Scopus) & 13	October 2024	2075 - 1680	A Hybrid Fuzzy Mathematical Programming Approach for Manufacturing Inventory Models with Partial Trade Credit Policy and Reliability	1.9
Advances in Nonlinear Variational inequalities & 28	1092 – 910X	February 2024	Revealing Advanced Inventory Management Approaches through Python-Based Visualization and Modelling of Neutrosophic and Fuzzy Mathematical Models for Enhanced Decision-Making and Optimization	1.3

12. Details of Papers Presented:

Date	Organizer	Name of the Seminar	Paper Name
17 th March	Bishop Heber College,	Heber conference on	Modified third order
2017	Trichy	Computational Techniques	RK Method based on Centroidal mean for Fuzzy and hybrid fuzzy initial value problems
2 & 3 th March	Bishop Heber College,	Recent trend in Applied	Fifth order Runge-
2018	Trichy	Mathematics	Kutta Method based on Heronian Mean for Hybrid Fuzzy Initial Value Problem
7 & 8 th Jan 2019	Bishop Heber College, Trichy	HICAAMMC-2019	Fifth order Runge- Kutta Method based on Contra Harmonic Mean for Hybrid Fuzzy Initial Value Problem

4 th March 2020 4 th March 2020	Kongunadu College of Engineering & Namakkal Kongunadu College of	National Conference on Mathematics: Pure, applied and Computation (NMPAC-2020) National Conference on	Solving Fuzzy Linear Fractional Programming Problem Using LU Decomposition Method Solving Trapezoidal
	Engineering & Namakkal	Mathematics: Pure, applied and Computation (NMPAC-2020)	Fuzzy Number By Using Fully Fuzzy Linear Equations By Gauss Jacobi and Seidal Method
8 th November 2020	Queens College of Arts and Science, Pudukottai	National Conference on Mathematics: Pure, applied and Mathematics	Optimization of Average Monthly cost for Deteriorating items
15 th – 16 th July 2021	Mohanlal Sukhadia University, Udaipur	Recent Applications of Mathematical Sciences	Optimization of Average Monthly cost for Deteriorating items using Machine Learning by Python
24 th – 25 th February 2022	Cauvery college for women (Autonomous)	International Conference on New Ideas in Technology and Innovations	Optimization of fuzzy economic order quantity using partial trade reliability
30 th to 31 st January 2023	Cauvery college for women (Autonomous)	International Conference on New Ideas in Technology and Innovations	Optimization of fuzzy production inventory model with partial trade credit policy and reliability using Python
21 st to 22 nd October 2023	Holy cross Arts and Science for Women	International Conference on Mathematical Modelling, Analysis and Computing – 2023	Optimization of fuzzy production inventory model with partial trade credit policy and reliability

	Convers college for	International	Ontimization of
13 th to 14 th February 2024	Cauvery college for women (Autonomous)	International Conference on New Ideas in Technology and Innovations	Optimization of fuzzy inventory models with machine learning by navie bayes classification and weka
18 th to 19 th February 2024	Bon Secours Arts & Science College For Women	Virtual Conference on Emerging Trends For Futuristic Development in Science and Technology (TECHTRENDZ 2K24)	Analyzing Economic Order Quantity using Machine Learning and Weka
23 th February 2024	AIMAN College of Arts and Science For Women ,Trichy	International Conference on Recent Trends in Mathematics and its Applications-2024	Optimization of Fuzzy Economic Order Quantity using Machine Learning and Weka
06 th March 2024	Idhaya College for Women, Kumbakonam	International Conference on Recent Trends in Mathematics ICRMT 2024	Presented Paper "Optimization of Fuzzy Economic Order Quantity with Machine Learning Via Random forest and Weka", Recent Trend in Mathematics
24 th January 2025	Seethalakshmi Ramaswami College (Autonomous), Trichy	International Virtual Conference on "Mathematical Explorations and Breakthroughs"	Participated
18.02.2025 – 19.02.2025	Cauvery college for women (Autonomous)	International Conference on New ideas in Technology and innovations, Cauvery college for women (Autonomous), Annamalai Nagar, Trichy - 18	Presented Paper "Optimization of Fuzzy Pharmaceutical Economic Order Quantity using Machine Learning via

	Navie Bayes
	Classification"

13. Details of Seminars / Conferences / Workshops Attended:

Year &	Organizer	Title	National /	Topic
Date			International	
24 th August	Kongunadu	CSIR sponsored	CSIR sponsored	Innovations in
2019	College of	work shop	workshop	Number Theory
	Engineering and	"Innovations in		for Cryptography
	Technology,	Number Theory		Applications
	Namakkal	for Cryptography		
		Applications"		
11 th October	AIMAN College	Fuzzy	Faculty	Fuzzy
2019	of Arts and	Mathematics	development	Mathematics
	Science, Trichy		Programme	
17 th to 19 th	National	Training for	Rajiv Gandhi	Personality
March 2022	Institute of	Trainees of 21 st	National Institute	Development,
	Technology,	Century Skills	of Youth	Interpersonal
	Trichy	Education	Development	Skills, Creativity,
				Flipped
				Classroom and
				Blended
				Classroom
thand 10th	IQAC, Cauvery	Fostering Global	Faculty	Fostering
June 2022	College for Women	Competence among	development	Global
	(Autonomous),	Higher Education	Programme	Competence
	Trichy	Institutions through		among
		Technology		Higher
				Education
				Institutions
				through
				Technology
20 th to 25 th	Mahatma Gandhi	Mentoring Skills	Faculty	Mentoring
June 2022	National Council	and Facilitation	development	Skills and
	for Rural	Skills for Rural	Programme	Facilitation
	Education,	Higher Education		Skills for
	UGC – HRDC	Institutions		Rural Higher

	Bharathidasan			Education
	University, Trichy			Institutions
6 th and 7 th	Jamal Mohammed	Differential	Workshop	Differential
January	College	Equations and their		Equations and
2023	(Autonomous),	Applications in		their Applications
	Trichy	Mathematical		in Mathematical
		Modelling		Modelling
17 th	Rajeev Gandhi	Academic Integrity	Faculty	Academic
September	College of	and Dealing with	development	Integrity and
2022	Management	plagiarism – A	Programme	Dealing with
	Studies,	practical Approach		plagiarism – A
	Maharashtra			practical
				Approach
06.01.2023	Jamal Mohammed	Lecture Workshop	National	Lecture
_	College, Trichy	on		Workshop on
07.01.2023		Differential		Differential
		Equations and their		Equations and their
		Applications in		Applications in
		Mathematical		Mathematical
		Modeling		Modeling
11.09.2023	Vellore	A Five-Day	National	A Five-Day
-	Institute of	Online FDP		Online FDP
15.09.2023	Technology,	on Advances in		on Advances in
	Chennai	Graph		Graph
		Theory		Theory

14. Details of Orientation / Refresher Course Attended:

Date	Title of the Course	Organizer
29.10.2018 to	Capacity Building Workshop on E-	Cauvery college for Women
2.11.2018	Content Development	(Autonomous)
August to October	Higher Engineering Mathematics-	NPTEL
2019	FDP	
August to October 2019	Introduction to R Software	NPTEL
August to October 2019	Mentor for Calculus of one variable	NPTEL
August to October 2020	Descriptive Statistics with R software	NPTEL

August to October 2020	Mentor for Descriptive Statistics with R software	NPTEL
2020	Bescriptive Statistics with R software	
January to February	Python for Data Science	NPTEL
2021		
January to April 2021	Essential of Data Science with R-Software 1 Probability and Statistical Inference	NPTEL
August to October 2021	Big Data Computing	NPTEL
August to October 2022	Introduction to Machine Learning (Tamil)	NPTEL
January to April 2023	Data Analytics with Python	NPTEL
August to October 2023	Essential Mathematics for Machine Learning	NPTEL
10.03.2023	UGC-Sponsored Online	Bharathidasan University
_	short term course in	Khajamalai Campus
16.03.2023	Quality Assurance and	Tiruchirappalli
	Enhancement in Higher	
	Education	

15. Details of Incharge / Participation in Extracurricular Activities :

(NSS, NCC, Sports, Games, Voluntary Association and Cultural Activities):

Nature of Activity	Period of Incharge
Culturals	2018-2023

16. Details of Participation in Consultancy, Training, Development etc.:

- 1) Getting with one note
- 2) Digital story telling with Microsoft sway
- 17. Any other information if any:

Number of Webinars Attended

22

Number of Faculty Development Programme Attended

22